Title (en)
DATA COMPRESSION AND DATA DECOMPRESSION METHODS FOR ELECTRONIC DEVICE, AND ELECTRONIC DEVICE

Title (de)
DATENKOMPRESSION UND DATENDEKOMPRIMIERUNGSVERFAHREN FÜR ELEKTRONISCHE VORRICHTUNG UND ELEKTRONISCHE VORRICHTUNG

Title (fr)
PROCÉDÉS DE COMPRESSION DE DONNÉES ET DE DÉCOMPRESSION DE DONNÉES POUR DISPOSITIF ÉLECTRONIQUE, ET DISPOSITIF ÉLECTRONIQUE

Publication
EP 3951608 A4 20220622 (EN)

Application
EP 20832044 A 20200628

Priority
- CN 201910579295 A 20190628
- CN 2020098614 W 20200628

Abstract (en)
[origin: EP3951608A1] A data compression method and a data decompression method for an electronic device, and an electronic device are provided, to make compressed data become smaller, so that overheads caused by data storage and receiving/sending are reduced. The method is: Each of one or more matching rules includes one or more matching entries, each matching entry is used to perform matching on one or more pieces of to-be-matched data in a to-be-matched data group, and each matching entry includes: a preset field; a matching rule field, used to indicate to perform matching between first data in to-be-matched data and the preset field according to a specific rule; and a compression rule field, used to indicate, based on a matching result that is obtained through matching by using the matching rule field, that data is not to be sent or that one or more bits are to be sent. The method is specifically: receiving a to-be-matched data group (201), obtaining a target matching rule by performing matching based on the preset field and the matching rule field in each matching entry in the one or more matching rules (202), and performing processing based on a compression rule field in each matching entry in the target matching rule (203).

IPC 8 full level
G06F 16/174 (2019.01); H03M 7/30 (2006.01)

CPC (source: CN EP US)
G06F 16/1744 (2018.12 - CN US); G06F 16/24564 (2018.12 - CN); H03M 7/3084 (2013.01 - EP); H03M 7/6047 (2013.01 - EP); H03M 7/3091 (2013.01 - EP); H03M 7/707 (2013.01 - EP)

Citation (search report)
- [I] US 7643505 B1 20100105 - COLLOFF IAN G [US]
- [I] US 2006106870 A1 20060518 - FRANASZEK PETER A [US], et al
- [XI] ANONYMOUS: "Robust Header Compression", WIKIPEDIA, 1 April 2019 (2019-04-01), pages 1 - 6, XP055919177, Retrieved from the Internet <URL:https://en.wikipedia.org/w/index.php?title=Robust_Header_Compression&oldid=890433733> [retrieved on 20220509]
- [XI] KHALED Q. ABDELFADEEL ET AL: "LSCHC : Layered Static Context Header Compression for LPWANs", PROCEEDINGS OF THE 12TH WORKSHOP ON CHALLENGED NETWORKS , CHANTS '17, 20 October 2017 (2017-10-20), New York, New York, USA, pages 13 - 18, XP055505241, ISBN: 978-1-4503-5144-7, DOI: 10.1145/3124087.3124092
- See references of WO 2020259704A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3951608 A1 20220209; EP 3951608 A4 20220622; CN 112148694 A 20201229; CN 112148694 B 20220614; US 2022121626 A1 20220421; WO 2020259704 A1 20201230

DOCDB simple family (application)
EP 20832044 A 20200628; CN 201910579295 A 20190628; CN 2020098614 W 20200628; US 202117562755 A 20211227